

PROJECT DESCRIPTION

I. GENERAL INFORMATION:

This project involves interconnecting the Traffic Signals along MD 173 (Fort Smallwood Rd.) from Edwin Raynor Blvd. north to Bar Harbor Rd./ Riviera Dr. in Anne Arundel County.

MD 173 is assumed to run in a north-south direction.

The intersections within the System are as follows:

- MD 173 and Edwin Raynor Blvd.
- MD 173 and Duvall Hwy./ Valley Rd.
- MD 173 and Elizabeth Landing Rd.
- MD 173 and Appian Way/ Sunset Elementary School
- MD 173 and Rugby Rd. (Fire House Signal)
- MD 173 and Bar Harbor Rd./ Riviera Dr.

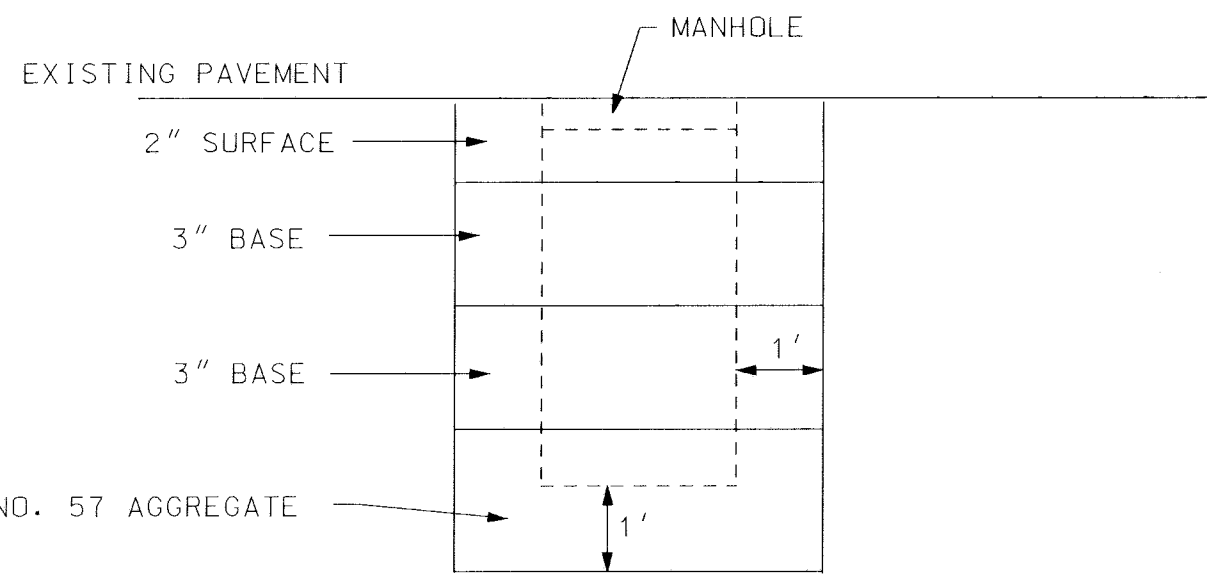
II. INTERSECTION OPERATION:

- The System Intersections shall be interconnected with 12-pair communication cable.
- The existing traffic signal operation for the intersections within the system shall remain the same.
- Sampling Detectors shall be provided farside, north and south along MD 173 at all the System's Intersections except for MD 173 and Elizabeth Landing Rd.
- The existing pole-mounted cabinet at MD 173 and Appian Way/ Sunset Elementary School shall be retrofitted with four channel amplifiers, detector panel and power supply.
- The intersection at MD 173 and Duval Hwy./ Valley Rd. shall have the master controller and phone drop installed.

III. SPECIAL NOTES:

- The Contractor shall be responsible for terminating all signal cables excluding interconnect, to the appropriate terminals and shall label each.
- All other controller wiring will be performed by the SHA Signal Shop. The Contractor shall contact Mr. Ed Rodenhizer at 410-787-7650, seventy-two hours in advance of the internal work.

ROADWAY PATCH DETAIL



CONSTRUCTION NOTE:

- No. 57 Aggregate shall be used with installation of all manholes (with 2-HMA lifts of 3" and a 2" surface).

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY M.S.H.A.

ITEM NO. QUANTITY UNIT DESCRIPTION

9000	1	EA	Detector rack retrofit.
9002	6	EA	Detector amplifier 4-channel rack mounted.
9003	1	EA	Detector panel.
9004	1	EA	Detector power supply.
9088	1	EA	Master ASC 10000 with telemetry panel and harness

NOTE: 1. The cost for the detector rack retrofit, detector panel, 4-channel amplifiers, and power supply shall be charged to the State Wide Detector Up-grade Program.

EQUIPMENT LIST (con't)

C. SHA Forces shall remove the auxiliary equipment from the required controller cabinets.

All other materials to be removed by the contractor shall become the property of the contractor.

EQUIPMENT LIST (con't)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO. QUANTITY UNIT DESCRIPTION

1001	2	EA	Maintenance of traffic per assignment.
2001	4	CY	Class 2 excavation.
6004	18	SF	4" sidewalk.
8054	940	LF	3" polyvinyl chloride (Schedule 80) electrical conduit (trenched).
8058	5700	LF	12 pair communication cable, underground (jellyfilled).
8066	75	LF	No. 6 AWG stranded bare copper ground wire.
8067	80	LF	1" galvanized steel electrical conduit for detector sleeve.
8069	2440	LF	3" polyvinyl chloride (Schedule 80) electrical conduit (bored).
8073	25	LF	1" liquid tight non-metallic flexible conduit for detector sleeve.
8076	10	EA	Handhole
8084	1270	L.F	2 - conductor (No 14 AWG) electrical cable- aluminum shielded.
8090	2010	LF	Loop wire (No 14 AWG) encased in 1/4" flexible tubing.
8091	635	LF	Sawcut for signal (loop detector).
NEG	8	EA	Manhole
NEG	LUMP	SUM	Roadway Patch (includes Hot Mix Asphalt, No. 57 Aggregate and metal plates for manhole installation).
NEG	192	LF	Full depth sawcut (for manhole installation) 6'x6' per manhole.

The contact persons for District #5 are as follows:

Mr. Lawrence Elliott
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. George Charles
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 173: EDWIN RAYNOR BLVD. NORTH TO
BAR HARBOR RD./ RIVIERA DR. SYSTEM

SYSTEM GENERAL INFORMATION SHEET

DRAWN BY: EMM
CHECKED BY: RRZ
SCALE: NONE
DATE: 03/11/02

F.A.P. NO.
S.H.A. NO. XX1085185
COUNTY: ANNE ARUNDEL
LOG MILE: 03.80 TO 05.13

TS NO.
3927X4
T.I.M.S. NO.
E 640

SHEET NO.
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